skeye.

skeye.dart with Windows Mobile 6.5
HW 90240

Version 1.00

User Guide

HÖFT & WESSEL

Table of contents

TABLE OF CONTENTS

1. Introduction

The proven industry PDA skeye.dart combines appealing design and comfortable operation with state-of-the-art technology and robustness.

The multifunctional skeye.dart is the ideal work instrument for all applications in the field service and logistics.

For data transmission, in addition to the WLAN module compliant with IEEE 802.11 b/g, the device also has a GPRS/EDGE module; accordingly, all the relevant data is always available up to date. A GPS module facilitates navigation as well as tracking of the device.

1.1 Document Information

Product: skeye.dart with Windows Mobile 6.5
Type of Document: User Guide
Version: 1.00
Author: Lin
                      Höft & Wessel AG, Hannover

1.2 Changes

Version:	Changes:	Date:	By:
01.00	First version	26.03.2010	Cha/Lin/GH

1.3 Terminology

skeye.dart FFE HW 90240 FFE	Portable Data Terminal (in the following referred to as "mobile terminal") with WLAN IEEE 802.11b/g, Bluetooth 2.0, GSM/GPRS/EDGE and GPS
Battery HW 19240	The mobile terminal is supplied by a rechargeable lithium-ion battery
Desktop Cradle USB HW 50240	Desktop Cradle with USB interface for the mobile terminal
Power supply unit	Wide range switched mode power supply unit to provide the mobile terminal and the desktop cradle with power.
Car Charging Cradle HW 51240	For installation of the skeye.dart in vehicles and for charging of the battery.

1.4 Readership

The documentation is intended for people operating the **skeye.**dart.

1.5 Intended Use

The skeye.dart has been designed for use in the commercial sector and for acquiring and transferring data within buildings or vehicles or outside under moderate climate conditions.

The skeye.dart is not intended for distribution to private households.

Please pay attention to the information of this user guide, especially the safety notes. Intended use means that the device must only be used and operated in accordance with the information contained herein. Any other use is not an intended use and may lead to property damage or even personal injury. Höft & Wessel does not accept any liability for damages caused by a usage other than the intended usage.

1.6 Microsoft Software License Terms for Windows Mobile 6 Software

These license terms are an agreement between you and **Höft & Wessel AG** ("Company"). Please read them. They apply to the software included on this device. The software also includes any separate media on which you received the software.

The software on this device includes software licensed by Company from Microsoft Corporation or its affiliate.

The terms also apply to any

- updates,
- supplements,
- Internet-based services, and
- support services

for this software, unless other terms accompany those items. If so, those terms apply.

As described below, using some features also operates as your consent to the transmission of certain standard computer information for Internet-based services.

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4. **INTERNET-BASED SERVICES.** Microsoft provides Internet-based services with the software. Microsoft may change or cancel them at any time.

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Device Information. The following features use Internet protocols, which send to the appropriate systems device information, such as your Internet protocol address, the type of operating system, browser and name and version of the software you are using, and the language code of the device where you installed the software. Microsoft uses this information to make the Internet-based services available to you.

- *Windows Mobile Update Feature.* The Windows Mobile Update feature provides you the ability to obtain and install software updates on your device if updates are available. You may choose not to use this feature. Company and/or your Mobile Operator may not support this feature or an update for your device.

- *Windows Media Digital Rights Management.* Content owners use Windows Media digital rights management technology (WMDRM) to protect their intellectual property, including copyrights. This software and third party software use WMDRM to play and copy WMDRM-protected content. If the software fails to protect the content, content owners may ask Microsoft to

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USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED, EXCEPT FOR USE DIRECTLY RELATED TO (A) DATA OR INFORMATION (i) GENERATED BY AND OBTAINED WITHOUT CHARGE FROM A CONSUMER NOT THEREBY ENGAGED IN A BUSINESS ENTERPRISE, AND (ii) FOR PERSONAL USE ONLY; AND (B) OTHER USES SPECIFICALLY AND SEPARATELY LICENSED BY MPEG LA, L.L.C.

If you have questions about the MPEG-4 visual standard, please contact MPEG LA, L.L.C., 250 Steele Street, Suite 300, Denver, CO 80206; www.mpegla.com.

6. **DIGITAL CERTIFICATES.** The software uses digital certificates in X.509 format. These digital certificates are used for authentication.

7. **CONNECTIVITY SOFTWARE.** Your device package may include Windows Mobile Device Center or Microsoft ActiveSync software. If it is included, then you may install and use it in accordance with the license terms that are provided with it. If no license terms are provided, then you may install and use only one (1) copy of the software on a single computer.

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9. **PRODUCT SUPPORT**. Contact Company for support options. Refer to the support number provided with the device.

10. **LINKS TO THIRD PARTY WEBSITES.** If the software provides links to third party websites, those links are provided to you only as a convenience, and the inclusion of any link does not imply an endorsement of the third party website by Microsoft.

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    This limitation applies to:

    ● **anything related to the software, services, content (including code) on third party internet sites, or third party programs, and**

    ● **claims for breach of contract, breach of warranty, guarantee or condition, strict liability, negligence, or other tort to the extent permitted by applicable law.**

    It also applies even if Microsoft should have been aware of the possibility of the damages. The above limitation may not apply to you because your country may not allow the exclusion or limitation of incidental, consequential or other damages.

18. **EXPORT RESTRICTIONS.** The software is subject to United States export laws and regulations. You must comply with all domestic and international export laws and re gulations that apply to the software. These laws include restrictions.

1.7 Safety Notes

Carefully read and follow the user manual and the safety information mentioned in this chapter before performing further steps. You have to:

- read
- keep the information in mind during work.

This is the precondition for
- secure working with the product
- undisturbed handling

1.7.1 General Safety Notes

Transport and Storage:
♦ The device must only be shipped in original or comparable robust packaging. Shipping the device e.g. in a normal padded bag does not provide sufficient impact and pressure protection.
Such improper packaging would fall under the definition of the term Negligence.

Handling:

♦ Never expose the skeye.dart to very high temperatures for a long time.

♦ Never insert any objects not intended for use with this device in the instrument's openings. This might damage the device.

Operating:

♦ Do not dip the skeye.dart into fluid.

♦ Only use your skeye.dart with original equipment. Non-compliance voids the warranty.

♦ Do not operate your skeye.dart when you are in explosive areas, for instance in petrol stations, fuel depots, chemical plants, below deck in ships, near blasting operations, in locations where a large volume of dust particles (such as flour, wood or metal) is present in the air, etc.
We recommend to switch off the device completely. This also applies to places where you are usually advised to switch off your vehicle motor.

♦ Do not operate in close range of strong electromagnetic fields. Failures may be caused.

♦ Interference may be noticed near electric devices. Therefore, always pay attention to local safety regulations.

♦ Users with hearings aids must note that radio signals of electronic devices (with radio equipment) may launch into hearing devices causing an unpleasant noise.

Maintenance, Service and disturbances:

♦ The skeye.dart is – apart from charging of battery and the mentioned comments – lifetime maintenance-free and does not need special care.

♦ Do not try to open, repair or modify your skeye.dart. The manufacturer will not be liable for any damage caused in that way. Apart from other things, the function for correctly charging the battery may be influenced. As a result, excessive charging voltage, uncontrolled charging and discharge current, leakage of harmful substances, excessive heat generation, bursting or fire may occur.

♦ Any tampering by non-authorised persons will invalidate the warranty.

♦ If your skeye.dart needs to be repaired or maintained, please contact your specialised dealer.

♦ Clean the housing only with damp cloth and mild detergent.

1.7.2 Safety Notes for the Lithium-Ion Battery

Carefully read the following safety notes to prevent an incorrect handling of the battery and to avoid possible dangers.

Non-observance of the safety information or incorrect use of the battery can lead to excessive current flow, to the discharge of harmful substances, excessive heat development, explosion or fire.

Transportation and storage:

♦ Do not transport or store the battery together with metal objects such as necklaces, hairpins, etc. Doing so may short circuit the battery, which could result in excessive current flow and possibly cause leakage of battery fluid, heat generation, bursting or fire. When carrying or storing batteries, use an electrically nonconductive (insulated) case.

♦ When the equipment is expected not to be used for a long time do not store the batteries exceeding the appropriate conditions as listed below. Otherwise its performance will be degraded and its service life will be decreased.

▪ when the batteries are discharged and remain in the equipment: 1 week

- when the batteries are fully charged and remain in the switched off equipment: 1 month
- long-term storage: see next note.

♦ When the battery is expected not to be used for a long time, take the battery out of the equipment and store it in a dry place at or below room temperature. For an optimum service life, the battery should be charged up to 20 to 40% when being stored. After 12 months at the latest the device should be charged and subsequently discharged. Otherwise, its performance will be degenerate and its service life will be decreased.

♦ Switch off the backup battery if you do not use the device for a longer time (see chapter 3.1)

♦ Store the battery in a location where children cannot reach it. Also make sure that a child does not take out the battery from the charger or equipment being used. If a child swallows a battery, seek medical attention immediately.

♦ The storage temperature must not be below −20 or above +50°C.

Ambient conditions:

♦ The temperature may not be outside the admissible operating and storage temperature range of -20 to +50 degrees centigrade. The temperature may be within the range of 0 °C to +40 °C during charging.

♦ Do not discard the battery into fire and do not leave it in a hot place such as near a fire or on a heater. Doing so melt the insulation, damage the sealing parts or protective devices, cause leakage of battery fluid (Electrolyte) from the batteries, bursting or fire.

♦ Do not immerse batteries in water or seawater, and do not allow them to become wet. Batteries which have become wet must always be replaced with new ones because internal short-circuits can cause dangerous heat emissions if further used.

♦ Do not throw batteries, and do not allow them to fall on hard surfaces.

Connection:

♦ Do not connect the battery to an electrical outlet, e.g. vehicle cigarette lighter, power outlets, other power supply units, other charger, etc.

♦ Do not reverse the positive (+) and negative (-) terminals when inserting the battery. Since the mechanical design of the battery enables you to insert in one direction only, the battery must not be inserted into the opposite direction by force.

Handling:

♦ Protective devices to prevent danger are built into the battery. To ensure for a proper operation, do not disassemble the battery or modify parts of it. If they are damaged, this could result in excessive charging voltage, control loss during charging or discharging, leakage of battery fluid, heat generation, bursting or fire.

♦ Do not disassemble Li-ion bare cells of the battery. There is the danger of flammable fluid being spilt. It may also cause an internal or external short circuit, leakage of battery fluid, heat generation, bursting or fire.

♦ Do not directly solder the battery. Doing so melt the insulation, damage the sealing parts or protective devices, cause leakage of battery fluid (Electrolyte) from the batteries, bursting or fire.

♦ Do not short-circuit the battery by directly connecting the positive (+) and negative (-) terminals with objects such as wire. Short circuiting generates heat which may

damage the equipment. In the worst case this could result in leakage of battery fluid, bursting or fire.

♦ Do not put the battery into a microwave oven or pressurised container. This could result in leakage of battery fluid, bursting or fire.

♦ Do not pierce the battery with a nail or other sharp object, hit it with a hammer, or step on it. This could result in leakage of battery fluid, bursting or fire.

Operation:

♦ For operation of the device use the delivered battery only. Please use the battery only for the determined purpose.

♦ Do not use the battery in any device other than those specified in this manual. Depending on the device being used, doing so may cause abnormal current flow, leakage of battery fluid, heat generation, bursting or fire.

♦ If the battery becomes discolored or deformed, or in any way appears abnormal, stop using it. Return it to the distributor or manufacturer from whom you purchased it.

♦ Do not use or leave the battery in very high temperatures (for example, under strong direct sunlight). Otherwise, it may cause leakage of battery fluid, bursting or fire or its performance will be degenerate and its service life will be decreased.

♦ To ensure safety, the battery incorporates built-in safety devices. Do not use it in a location where static electricity is greater than what the manufacturer guarantees. Otherwise, the safety devices may be damaged, causing leakage of battery fluid, expose of fire.

♦ Do not use the battery in other than the following conditions. Otherwise, it can overheat or fire, or its performance will be degenerate and its service life will be decreased.

  ▪ when the battery is charged: 0 °C ~ +40 °C
  ▪ when the battery is discharged or stored: -10 °C ~ +50 °C

  Note: higher temperatures increase the self-discharge of the battery.

♦ Do not use the battery in combination with primary batteries (such as dry-cell batteries) or batteries of different capacities or brands. That may cause leakage of battery fluid, heat generation, bursting or fire.

♦ Do not connect different assembled batteries together. And also do not connect same assembled batteries in series, unless explicitly instructed by the user information to do so.

Charging:

♦ When recharging, only use the battery charger specially provided by Skeye. Failure to follow proper charging procedures may cause excessive voltage, excessive current flow, loss of control during charging, leakage of battery fluid, heat generation, bursting, or fire.

♦ Do not use or charge the battery near a heat source such as fire or heater or in extremely hot weather.

♦ Do not charge a battery when it is cold (below 0 °C). This may cause impaired performance and shortening of battery service life.

♦ If a battery is to be used for the first time or it has not been used for a long time, be sure to charge it.

Health hazards:

♦ If a battery leaks, and the electrolyte enters the eye, do not rub but rinse out thoroughly under flowing water and then seek medical assistance. Otherwise, eye damage can result.

♦ If a battery leaks and the electrolyte makes contact with clothing or the skin, the skin or clothing must be rinsed out under flowing water in order to prevent damage to the skin.

Maintenance, service and disturbances:

♦ Lithium-ion batteries have a predetermined operating life. If the operating time shortens excessively, this means that the battery life has expired. If it comes to that point, stop use immediately and replace with new batteries.

♦ Lithium-ion battery is a designated product of Recycle. The battery after using is a valuable resource. The return of the batteries ensures reuse of the chemicals contained. This recycling process avoids any impact to the environment.
Höft & Wessel guarantees that all batteries returned are fed to the recycling process.
When a battery is no longer usable, discharge it. When you dispose of the Lithium battery, insulate it by wrapping the terminals with tape. Mixing the battery with other metals or batteries may lead to fire, heat, or explosion.
Then, return the battery to Höft & Wessel. As a part of its normal service, Höft & Wessel guarantees that all used batteries are fed to the recycling process.

See also extract from BattV (Decree for the return and disposal of used batteries and accumulators, Germany) as of 09.09.2001:

„The manufacturers are obliged to take back and reuse toxic containing batteries according to the regulations and dispose of non-reusable batteries that have been handed in by distributors (§5) or public disposal departments (§9)."

♦ If Lithium-ion batteries are not fully charged after the battery charger's predetermined charging period has elapsed, stop the charging process. Prolonged charging may cause leakage of battery fluid, heat generation or bursting of fire.

♦ If the battery leaks or gives off a bad odor, remove it from any exposed flame. Otherwise, the leaking electrolyte may catch fire, and the battery may explode or fire.

♦ If the battery gives off an odor, generates heat, becomes discolored or deformed, or in any way appears abnormal during use, recharching or storage, immediately remove it from the device or battery charger and stop using it.

♦ In case the battery terminals are dirty, clean the terminals with a dry cloth before use, otherwise, the contact with equipment may cause insufficiency, and power failure or charge failure.

1.7.3 Safety Notes for the Desktop Cradle/Car Charging Cradle

♦ The battery may only be charged with the battery charging device recommended by the manufacturer. The utilisation of another battery charger might be dangerous and leads to an end of the warranty.

♦ Do not try to open, repair or modify your device. The manufacturer will not be liable for any damage caused in that way. Apart from other things, the function for correctly charging the battery may be influenced. As a result, excessive charging voltage, uncontrolled charging and discharge current, leakage of harmful substances, excessive heat generation, bursting or fire may occur.

♦ If the desktop/car charging cradle changes shape or colour, generates heat or in any way appears abnormal stop using it. Return it to the distributor or manufacturer from whom you purchased the desktop/car charging cradle.

♦ Use the desktop/car charging cradle only with the supplied power supply. The main voltage must correspond to the technical data mentioned on the power supply.

♦ Use the desktop/car charging cradle only in dry, closed rooms and not in direct sunlight, e.g. behind windows.

♦ The device has to be connected to a USB 1.1 or higher interface.

♦ Keep the device out of the reach of small children.

1.7.4 Safety Notes for the Power Supply

♦ Do not try to open and/or repair and/or alter the power supply. The manufacturer will not be liable for any damage caused in that way.

♦ Always connect the power cable into an easy accessible wall outlet.

♦ Always connect the power cable to the device before plugging it into the wall outlet. Make sure that you do not insert the power cord into the headset plug by mistake.

♦ Check that the plug is clean before plugging it in.

♦ Do not place any objects on top of the cord.

♦ Do not place the cord near heating equipment.

♦ Do not connect cables other than those specified in this manual. Doing so may result in fire or improper operation.

♦ Do not use a damaged cord.

♦ Handle the power cord with care. Improper handling may lead to fire or shock.

♦ Avoid excessive bending, twisting, and pulling of the cord.

♦ When disconnecting the power cable, hold the plug firmly. Do not tug on the cord itself.

♦ Use power supply and power cable only in dry rooms.

1.7.5 Safety Notes on the Camera/Imager with LED Aimer

If your skeye.dart is equipped with an imager module with integrated LED aimer, please observe the following notes:

The LED light source is classified as a class 1 LED according to the following standard: IEC60825-1 ED 1.2:2001.

A class 1 LED is presumed to be safe under reasonably foreseeable conditions of operation. Even looking directly into the light beam by accident does not do any harm.

Caution: When changing the settings of the imager/aimer module except for those described in the user guide the LED radiation may exceed the harmless area of class 1.

1.7.6 Safety Notes on GSM/GPRS/EDGE

A GSM/GPRS communication can be realised via CF or PC card. If your device features such equipment pay attention to the safety notes.

Radio devices (such as GSM) are subject to certain restrictions when used in proximity to electronic instruments:

When being in an aircraft completely power off your skeye.dart (see chapter 3.4.2.). Using the skeye.dart in an aircraft interferes with the electronic equipment on board and might be dangerous. Please follow the instructions of the particular airline.

- Switch off your skeye.dart in hospitals or similar places to prevent an interference with medical devices.
- Switch off your skeye.dart at places where you are advised to switch off your mobile phone.
- The unit may affect heart pacemakers.
  The Federal Office for Radiation Protection recommends a distance of no less than 20 cm between a mobile phone and a heart pacemaker to ensure no interference takes place. This recommendation is also in line with studies and recommendations issued by independent institutes.
  Users with heart pacemakers must ensure a distance of at least 20 cm between the skeye.dart and the heart pacemaker.
- The unit may affect hearing aids.
- Interference may be noticed in close proximity to televisions, radios, PCs.

1.7.7 Safety Notes on Wireless LAN/Bluetooth

A Wireless LAN- or Bluetooth-communication can be realised using an integrated module. If your skeye.dart is equipped with a WiFI-/Bluetooth-module, please pay attention to the safety notes.

Radio facilities – as well as Wireless LAN and Bluetooth - are subject to certain restrictions during use near electronical devices. In this connection please read the safety notes of the previous chapter.

Wireless LAN data communication and Bluetooth can be easily intercepted and recorded. Secure your network against unauthorised intrusion into the WLAN. We recommend that you consult a specialist (e.g. a system house).

1.7.8 Safety Notes on Data Loss

♦ It is very much recommended that all important data be backed up as durable hardcopy. It is very much recommended to store all recorded data to flash disk and to regularly back up the data on an external medium. Given certain conditions, loss or modification of data can occur in practically any electronic storage system. Therefore, we do not accept any liability for loss of data or data being otherwise rendered unusable following incorrect use, repairs, faults, battery problems, software errors or for any other reason.

We shall not be held liable either directly or indirectly for any financial loss or third party compensation claims which arise on foot of the use of this product and all and any of its functions, such as stolen credit card numbers, loss or modification of data, etc.

1.8 Disposal

The skeye.dart is not intended for use in private households. The device must not be disposed of via a public waste disposal system. For disposal, return the device to the Höft & Wessel AG.

1.9   Explanations on this Manual

The User Manual is designed to enable you to get your skeye.dart up and running quickly and is structured as follows:

- ♦ Introduction
- ♦ Taking into operation
- ♦ Software
- ♦ Communication/Data exchange
- ♦ Technical Data
- ♦ Troubleshooting

It is assumed that your are familiar with Microsoft Windows 2000, Windows XP, Windows Vista or Windows 7.
In case of problems refer to the corresponding Microsoft documentation.

1.9.1   Note Pictograms

Safety notes in the text are always illustrated in the same way.
In this manual three different safety notes are used.

NOTE!

A note points out tips on simplified use of the system / device for example by describing a simplified workflow using a certain tool.

CAUTION!

A CAUTION warning sign points out potential dangers relating to the equipment (i.e. short circuit) or loss of data.

WARNING!

The WARNING sign draws the user's attention to potential dangers that could be harmful to the health/life of the user (i.e. electric shock) or seriously damage the equipment (the equipment could be destroyed).

Indicates an alternative method to complete a task or additional information on a topic.

1.9.2 Registered Trademark

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2. skeye.dart

2.1 Accessories

- Battery
- Power supply unit

2.2 Desktop Cradle

- Desktop Cradle HW 50240 USB (Standard)
  (including power supply unit and USB cable)

2.3 Hardware Equipment

- Integrated camera
- Integrated Wireless LAN module, 802.11 b/g
- Bluetooth
- different memory capacities available
- SIM card slot (lockable to prevent unauthorised card removal)
- MicroSD card slot (lockable to prevent unauthorised card removal)
- GSM/GPRS/EDGE module
- GPS module

2.4 Views

2.4.1 Front View

Fig. 1: Front view

2.4.2 Side View

Power supply unit connection — System interface — Headset connection — Camera

Fig. 2: lower side

Fig. 3: upper side

2.4.3 Rear View

Loud speaker —

Stylus —

Battery locking

Battery compartment
(can be screwed)

With screw
Microstix 3 wing FPHM2-0,4x6
Skeye Order No. 112218

Reset pushbutton —

Charging contacts

DC — 1-Wire — GND
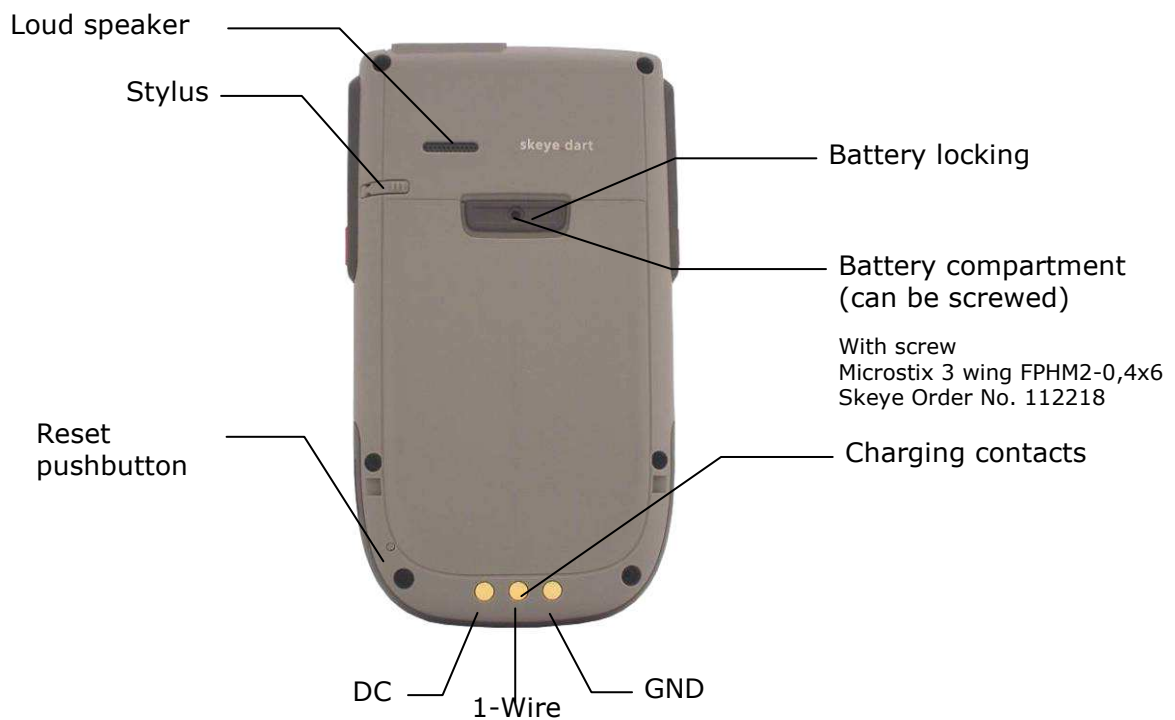
Fig. 4: Rear view

2.5 LED Function Displays

There are two modes:

- skeye.dart inserted in desktop cradle: the LED of the skeye.dart is
    - red = battery is charging
    - green = battery fully charged

- skeye.dart is mobile: can be operated by the application

3. Taking into Operation

The mobile terminal comes with a separate battery and a backup battery that is switched off. The backup battery has to be switched on before you insert the battery.

3.1 Switching on the Backup Battery

In the battery compartment push the switch (○) of the backup battery towards the display using the stylus. The battery is now switched on.

on   off
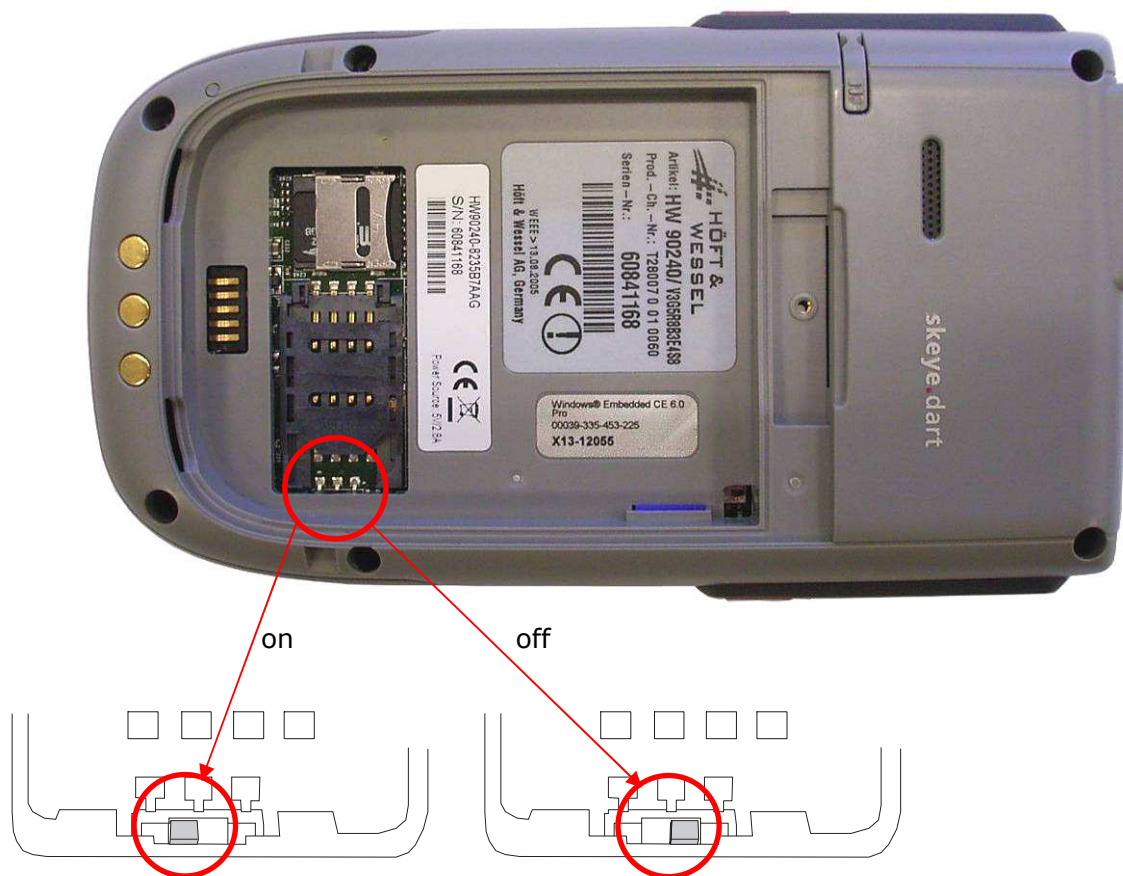
Fig. 5: Backup battery | switched **off**   Backup battery | switched **on**

3.2   **Inserting the MicroSD Card**

A MicroSD card as well as a MicroSDHC card can be used as storage medium.

- First remove the battery (see chapter 3.4.2).

- Then move the locking mechanism of the card holder to the right (bottom of device).

- Flap the cover of the card holder upwards and insert the MicroSD card that the contacts of the MicroSD card point to the contacts of the circuit board.

- Lock the card holder inclusive inserted card (move locking mechanism to the left).

Fig. 6: Inserting a MicroSD card

3.3   Inserting the SIM Card

The SIM card necessary for the GSM/GRPS/EDGE function is inserted into the designated slot under the battery.
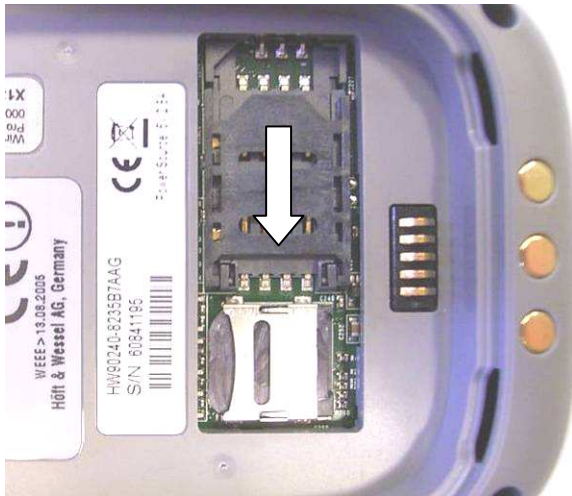
- First remove the battery (see chapter 3.4.2).

- Push the locking of the card holder down.

- Swing open the cover of the card holder.

- Carefully insert the SIM card. The conical corner should be top left, the contacts of the SIM card should rest on the contacts of the board.

- Only slightly insert the SIM card into the holder. If you push it too far into the holder the hinges of the holder might block

- Push the locking upwards, thus locking card holder incl. inserted card.

Fig. 7: inserting a SIM card

3.4 Battery

3.4.1 Inserting the Battery

There is only one way to insert the battery.
Insert the battery with its noses at the rounded part into the relevant recesses inside the battery compartment. Press the battery until it audibly engages. See also chapter 3.4.2.

Fig. 8: inserting the battery

Prior to initial operation the battery should be charged completely. To do so, insert the mobile terminal including battery into the desktop cradle (connected to power) or connect the power supply unit to the device.

Fig. 9: mobile terminal in desktop cradle / mobile terminal connect to power supply unit

To remove the battery press the battery lock down and remove (see chapter 3.4.2).

3.4.2   Replacing the Battery

ⓘ	1. **Back up your data before changing the battery.**
	2. **Switch off the device before changing the battery.**

Push the battery locking down, keep it pressed and remove the battery.

To re-insert the battery, insert it with its noses at the rounded part into the relevant recesses inside the battery compartment. Press the battery until it audibly engages. See also chapter 3.3.

Battery locking

Fig. 10: Changing the battery

3.4.3   Charging the Battery

The battery in the skeye.dart is automatically recharged if the skeye.dart is

* connected to the power supply unit
* placed in the desktop/car charging cradle (with connected power supply unit)

ⓘ	**Always recharge the battery in time. If the battery is discharged data loss may occur.**

3.5 Switching-on/Switching-off the skeye.dart

3.5.1 Switching-On

The mobile terminal is switched-on by pressing the round button in the middle.

Power-on
button

Fig. 11: switch-on the device

3.5.2 Switching Off

There are three ways to switch off your skeye.dart:

♦ Suspend mode
♦ Automatic Standby
♦ Complete Power Off by Removing the Battery (see chapter 3.4.2)

3.5.2.1 Suspend Mode

Suspending a device means that it is inactive and thus consumes less power. A suspended skeye.dart can be activated any time.

> **While suspending information in the RAM of the skeye.dart is maintained. If the power supply is interrupted e.g. due to a discharged battery, information in the RAM gets lost.**
>
> **It is thus recommended that you store all current data in the flash or on SD card prior to suspending the skeye.dart**

Suspending the skeye.dart:

1. Press the red key (bottom right) for about 5 sec.

The skeye.dart will be suspended in its current state. All open windows, documents, workbooks etc. are not closed but maintained in the working memory.

The skeye.dart is suspended.

If the power supply was not interrupted e.g. due to a discharged battery the data will be available again when you switch on/start the device.

3.5.2.2 Automatic Standby – Power Supply

Use the Power Supply function to save battery life. If you do not operate the unit for a certain time e.g. the display will be dimmed or the unit is set to suspend mode.

1. Launch: Start ⇒ Settings
   The Settings menu appears.

2. In the **Settings** menu tap **Power**.
   The Power window appears.
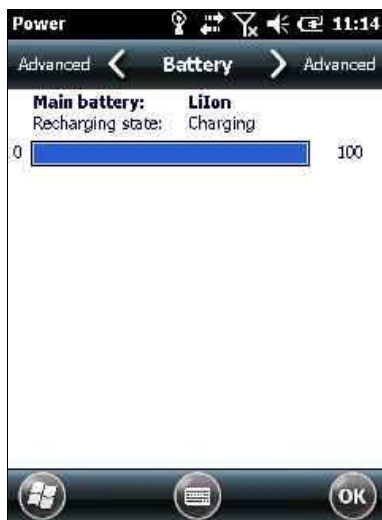
3. In the **Power** window tap **Advanced**.
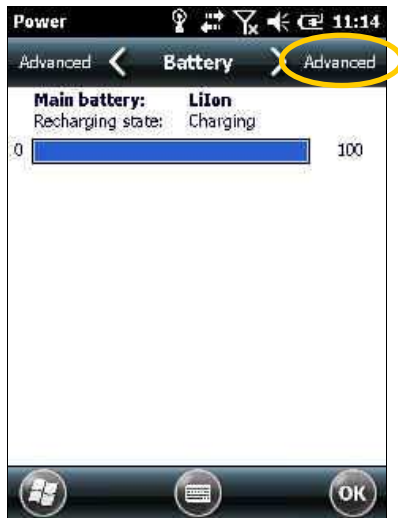
The Advanced window appears.

4. Perform the desired settings.
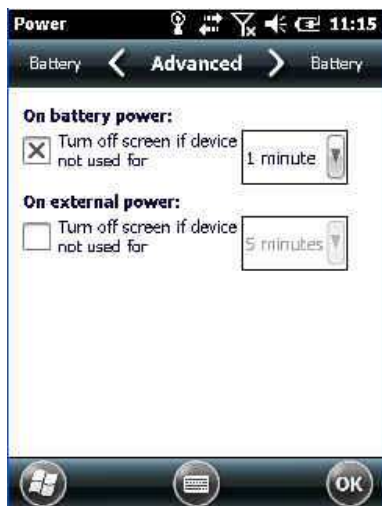
Fig. 12: Automatic power off

5. Click [OK] to confirm the changes.

4. Initial Steps

1. Insert the battery (see chapter 3.4.2).

2. Switch on the skeye.dart by pressing the middle scan key.

3. Take out the stylus (Fig. 4: Rear view).

4.1 Operating the skeye.dart with the Stylus

The stylus functions as a computer mouse. It is used to navigate on the screen and to select elements.

Remove the stylus from its clamp and put it back when you do not need it.

> **i** **Operate the touch screen only with the stylus supplied or your finger.**

- **Tapping**
  Tap the screen with the stylus once to open elements and to select options.

- **Dragging**
  On screen, keep the stylus pressed and drag it over the screen to select text and pictures. Move the stylus to a list to select several elements.

- **Double-tap**
  A double-tap is the same as double-clicking the mouse.

- **Tap and hold**
  Tap on an element and keep the stylus pressed onto the screen to display a list of actions for the element. In a context menu, select the action to be performed.

- **Tapping (close menu)**
  To close a menu (e.g. the start menu) tap a free space on the desktop.

4.2 Microsoft Windows Mobile

This mobile terminal supports the following Windows Mobile version: 6.5 (copy deadline, subject to changes).

4.2.1 Start Screen

Apart from the application program the Mobile Terminal features the Windows Mobile surface. The following figure shows the standard Windows Mobile workspace which may vary.

Fig. 13: Today Screen

4.2.2 Start Menu

Use the **Start menu** to call programs, change settings, manage favourites etc.
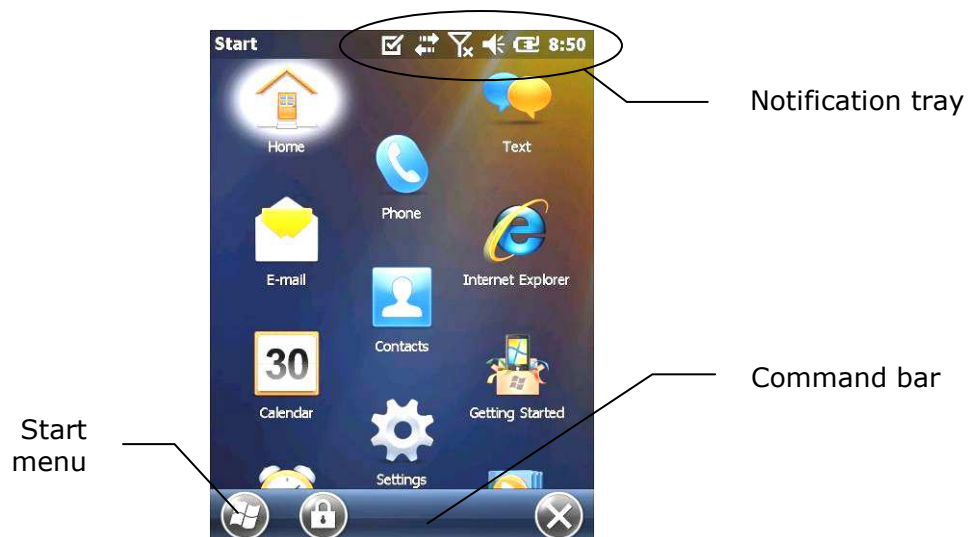
Fig. 14: Start Screen

4.2.3 Desktop Symbols

The following list contains an explanation of the symbols which can usually be found on a Windows Mobile surface:

Symbol	Program	Description
	File Explorer ⇒ **My Device**	Displays the storage locations available on the mobile terminal e.g. Flash Storage as well as the network. Due to its link to the system control the **My Device** also provides for a direct access to the system management tools.
	File Explorer ⇒ **My documents**	This is your personal folder.
	Internet Explorer	Searches web and WAP sites and downloads new programs and files from the internet.

4.2.4 Right Mouse Button Function

The right mouse button is used to open popup menus that support functions like Copying, Deleting, and Sending.

To call the functions of the right mouse button tap the element for which you want to perform the action and keep the stylus pressed.

The popup window of the right mouse button displays. Here, you can select the desired function.
If you do not wish to perform an action, tap any position outside the menu.

The function is not supported by all applications.

4.2.5 Basic Settings

Launch: Start ⇒ Settings

Fig. 15: Settings

4.2.6 System Info

1. Launch: Start Menu ⇒ File Explorer

2. In the "My Device" directory, tap **Program Files**.

3. In the "Program Files" directory, tap **System Info**.

4. In the "System Info" directory, tap **SysInfo**.
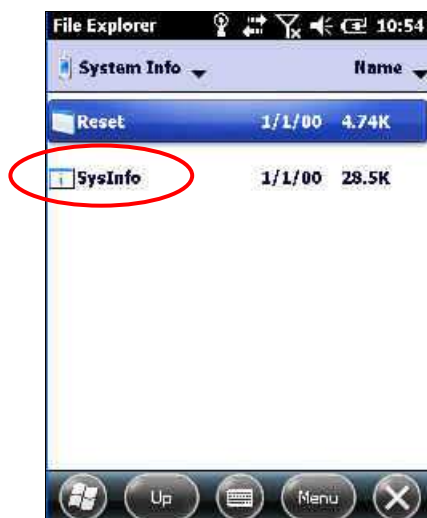
Here, the current hard and software data is listed.
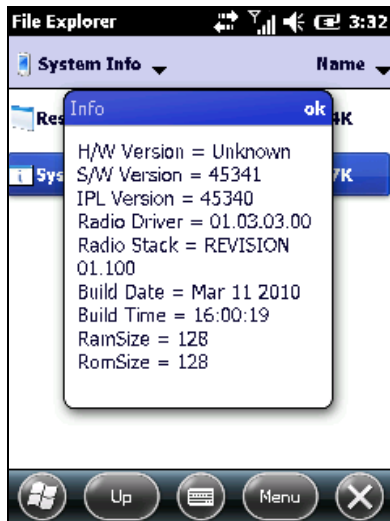

Fig. 16: SysInfo

Tap [ok] to close the window.

In case of a support query, please note down the data displayed here and include it in the query.

4.3   Image Update

1. Copy the data provided for the update by Höft & Wessel (bootloader, image, update application) into any directory.

2. From this directory, copy the following files to the SD card:
   zlibce.dll
   UpdateApp.exe
   iplrXX.nbz
   ebootrXX.nbz
   flashimgrXX.nbz   *(xx represents the release no.)*

3. Insert the SD card into the mobile terminal (see chapter 3.2) and connect the device to an external power supply.
   If you do not follow the instruction, the UpdateApp displays a message.

4. Launch: Start menu ⇒ File Explorer
   The "File Explorer" menu appears.

5. Select the **SD card**.

6. Tap **UpdateApp**.
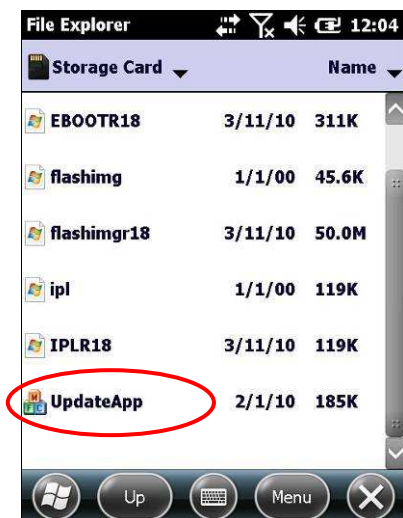
The files are automatically checked.
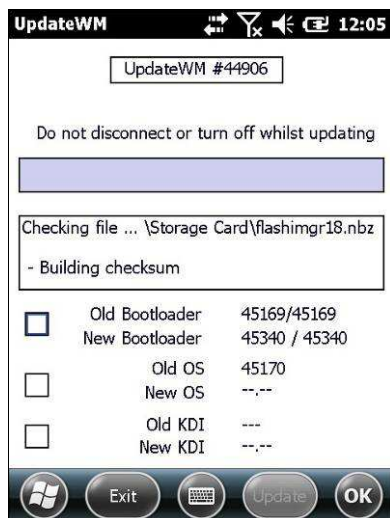
7. Select the respective updates by tapping the checkbox.
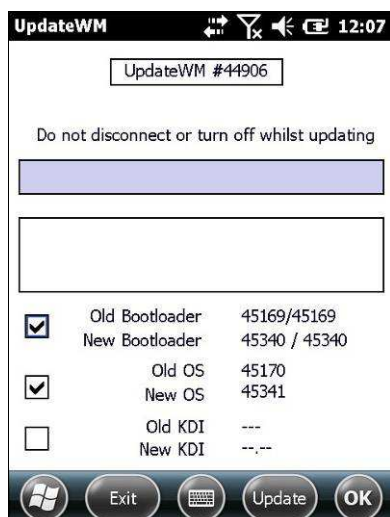
8. Tap [Update].
   A warning message displays, informing the user that after the update, the sysbackups can no longer be restored.
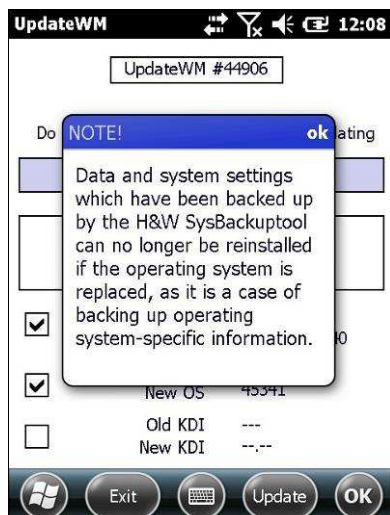
9. Click [OK] to confirm the message.
   The screen may flicker or switch off shortly.

10. Then, "skeye.dart" as well a progress bar is displayed showing the following information: "Loading update from SD card. Do not disconnect power or reset terminal".
    The update will take some minutes (10 - 15).

11. Then, the display changes from "Loading update from SD card" to "Adding update to flash".
    Here, no further entry is required. The progress bar changes from red to blue.

12. The device restarts and returns to the delivery status.

13. Finally, you are asked to calibrate the touch.
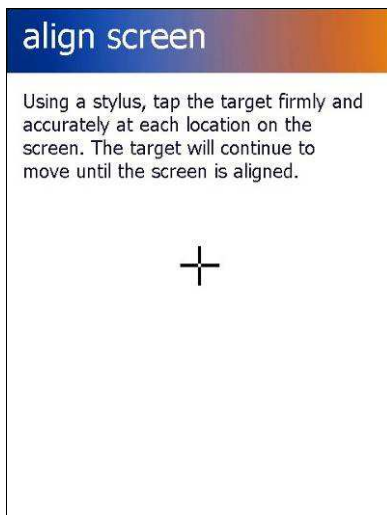
Position the stylus in the centre of the cross displayed *(the more precise, the better the touch screen will respond later*) and hold the position until the cross changes its position.

5.   Radio

5.1   Wireless LAN Configuration

Ensure the mobile terminal is connected to a PC via ActiveSync.

1. Launch: Start menu ⇒ Settings
   The "Settings" menu appears.

2. In the **Settings** menu tap **Connections.**
   The "Connections" menu appears.

3. In the **Connections** menu tap **Wi-Fi**.
   The "Wi-Fi" list "Search for Networks" displays.

4. The application automatically searches for available WLAN connection options. Double-tap the required WLAN network. The configuration dialog opens up.

5. Make the necessary selections.

- **SSID** is the name of the network used to determine your Wireless LAN network. To ensure a communication between all network computers be sure to use the same SSID for all. SSID is the address set in the access point.

- When accessing via an access point, option **This is a device-to-device (ad hoc) connection** is not activated.

Exit the dialog by tapping [Next].

6. Make the necessary selections. Set values for: Authentication and Data Encryption. Enter the "Network key".

- **Encryption** is used to prevent unauthorised access to the network. Enter the *common network key (password)*. This ensures that data is encrypted when being transferred over the network.

- The encryption type is set under **Encryption**. Under **Authentication**, set the method used by a Wireless LAN client to logon to an access point (e.g. WPA).

- The **network key** and the **network name** (SSID) must be the same as used for the configuration of the access point.

Exit the dialog by tapping [Next].

7. Set further options and properties as required.
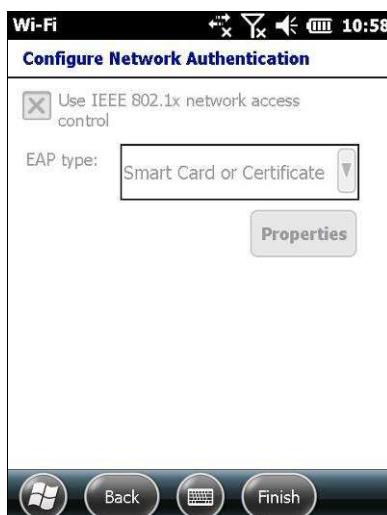
Exit the dialog by tapping [Finish].
The connection attempt to the internet starts automatically.

8. The connection result is displayed.

Tap [OK] to close the window.

⚠️ **Be sure to protect your Wireless LAN network. We recommend that you consult a specialist (such as a System house).**

The connection settings in the "Wireless Manager" functions are automatically used. Starting form the "Connections" menu the user can directly branch to the "Wireless Manager" function. Here, you can activate/deactivate the "Wi-Fi" function by clicking the respective connection.

Display examples:

WirelessManager_Off
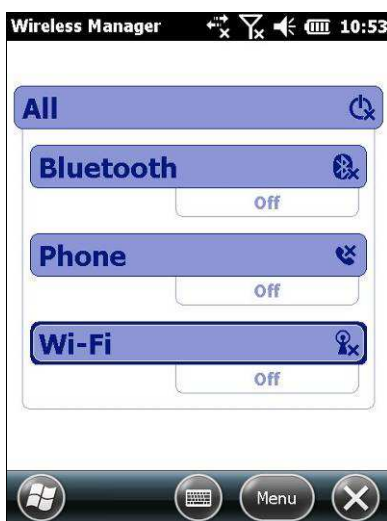
WirelessManager_On

5.2 Establishing a GPRS Connection

Before establishing a connection, please ask your provider for the connection settings and the APN (Access Point Name).

1. Insert the SIM card given by your provider into the SIM card slot of the mobile terminal (see also chapter 3.3).
2. Switch on the mobile terminal.
3. Launch: Start menu ⇒ Settings
   The "Settings" menu appears.

4. In the **Settings** menu tap **Connections.**
   The "Connections" menu appears.

5. In the **Connections** menu tap **Wireless Manager**.

The Wireless Manager opens up.

Switch on the phone by clicking the "Phone" line:
- the phone switches on
- the user is prompted to enter the PIN

6. Enter the PIN.
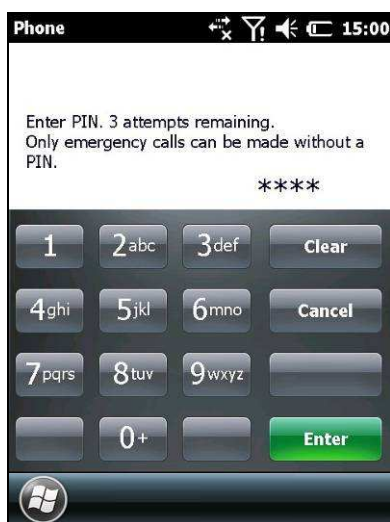
Confirm your entry by pressing [Enter].

7. The phone is now activated.

    Close the "Phone" dialog.

8. In the "Wireless Manager" the status is "On".
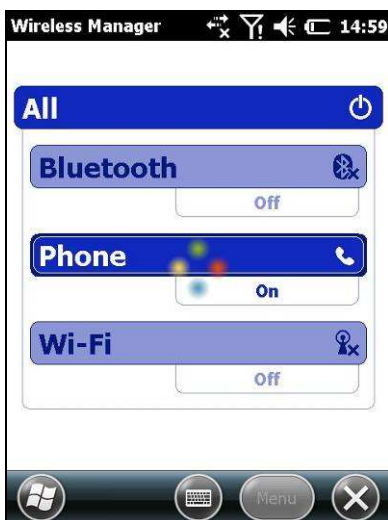
    Close the "Wireless Manager" dialog.

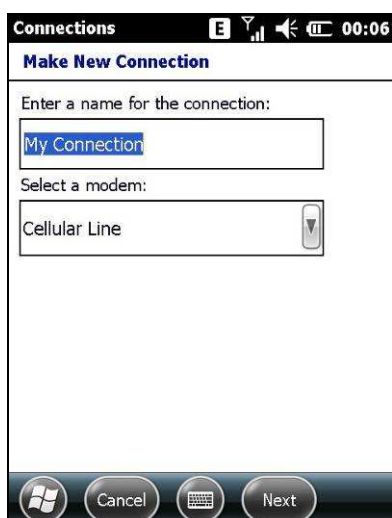9. Launch: Start menu ⇒ Settings ⇒ Connections ⇒ Connections
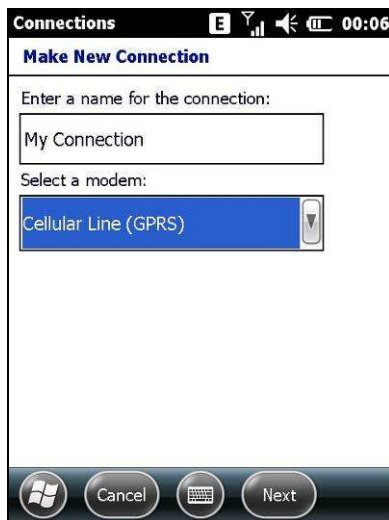

The "Connections" window opens up.

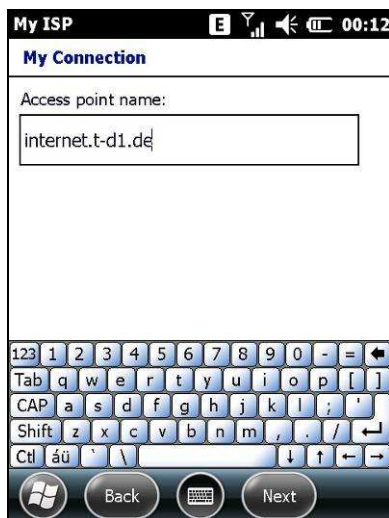Under e.g. "My ISP" start the "Add a new modem connection" function.

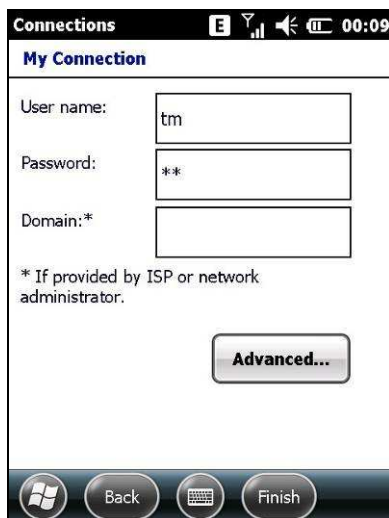10. Enter the name of the connection.

11. Select the modem.

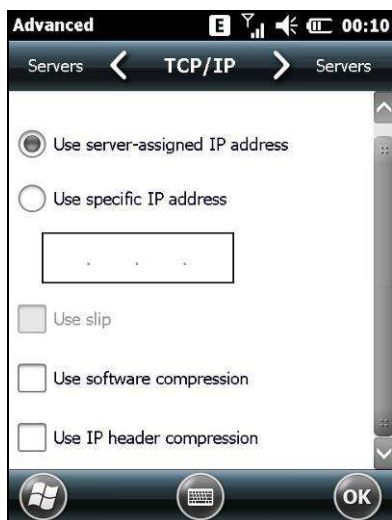12. Enter the "Access point name" (APN) of your provider.

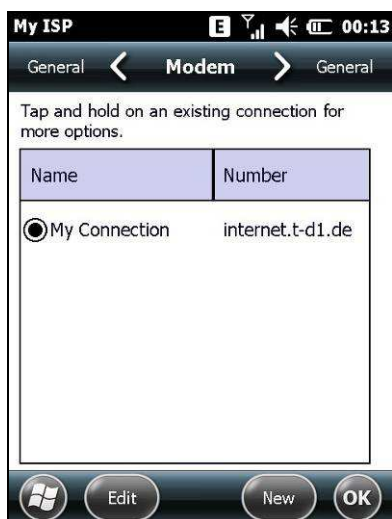13. Enter "User name", "Password" and "Domain" (if required).

TCP/IP options display below the [Advanced] button.

14. If required, adjust special TCP/IP settings.

Click [Ok] to confirm.
Exit the dialog by tapping [Finish].

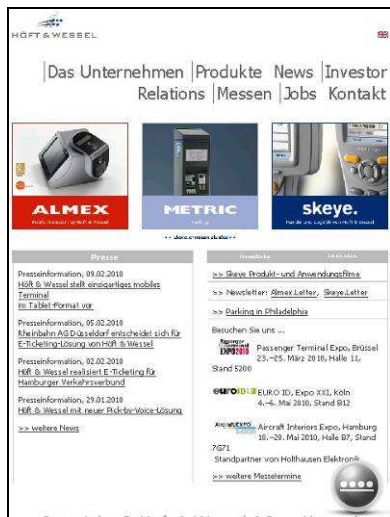15. The newly created "My Connection" is displayed in the list.

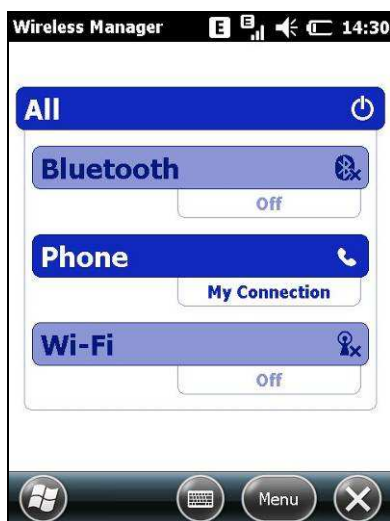Tap and hold the stylus onto "My Connection".

16. Select "Connect". The connection is established.

17. Launch: Start menu ⇒ Internet Explorer
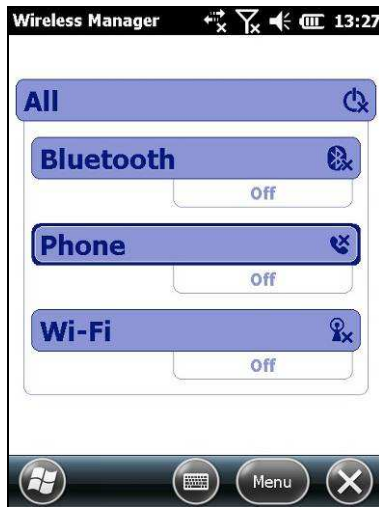   Call the Internet Explorer via the "Start" menu.

18. Launch: Start menu ⇒ Settings ⇒ Connections ⇒ Wireless Manager

"My Connection" is displayed as active below "Phone".

19. Cancel the connection by clicking the "Phone" line:

The Wireless Manager displays.

When the phone is switched on ("Wireless Manager" menu) the modem connection will be automatically activated when a browser is called.
If the "Phone" option has not been switched on, the following dialog appears:

6. Desktop Cradle

Fig. 17: Desktop Cradle | front and rear view

- **LED:**   The red LED at the desktop cradle indicates a connection to power.
- **Connections:** USB host, USB device, DC-in, system interface to the mobile terminal

6.1 Technical Data

Casing:	Shock resistant plastic, self-extinguishing according to UL94V-0
Slots:	One slot for the mobile terminal including battery.

Ports & Connectors	• Connection for HW 14240 power supply, DC voltage input Mini DC Power Jack ⌀ 1,3 mm, 5 V / 2.8 A
	• System interface to the mobile terminal
	• USB device ➢ USB 1.1
	                    ➢ Connection to a PC to communicate via ActiveSync possible
	• USB host ➢ USB 1.1
	                    ➢ Connection to USB devices 100 mA, 5 V

LED:	1 red LED on the front panel signals desktop cradle operating status
Battery charging:	• Charging in mobile terminal: controlled by the mobile terminal charging electronics • Charging duration: approx. 2.5 h (HW 19240)

Ambient conditions:	• Operate only indoors
	• Ensure good ventilation is available
	• Operating temperature:
	  - limit values: 0 °C to +40 °C,
	  - recommended range: 10 °C to +30 °C,
	• Storage temperature: -20 °C to +60 °C

- Humidity: up to 85 % (non-condensing)

Rules and Standards:	• CE conformity • ElektroG and RoHs conformity
Dimensions:	• about 95 mm x 95 mm x 75 mm (L x W x H)
Weight:	• about 140 g

6.2 Charging the Battery in the Desktop Cradle

- Connect the desktop cradle to power. The red LED of the desktop cradle glows.
- Insert the mobile terminal (incl. battery) in the desktop cradle. The LED of the mobile terminal glows red.
- When the LED of the mobile terminal glows green the battery is fully charged.
- Charging time: about 2.5 h

6.3 Connecting the Desktop Cradle to the Desktop PC
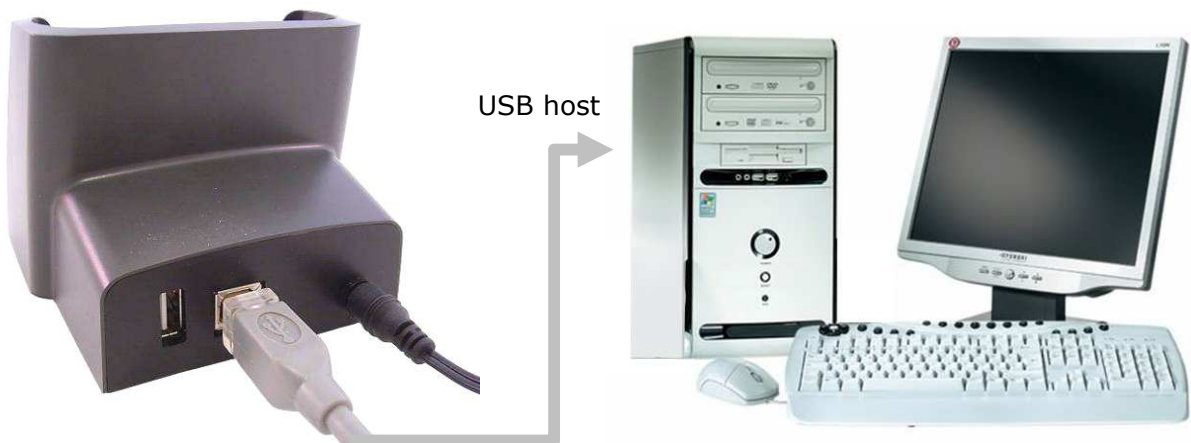

USB host

Fig. 18: Connecting the desktop cradle to the desktop PC

Desktop Cradle: USB device ⇔ PC: USB host

6.4   Communication skeye.dart ⇔ PC

- Install on your PC the program for data synchronisation of a PC with a mobile device. This program should be appropriate to your operational system:
  - Microsoft ActiveSync   ⇒ for Windows XP
  - Windows Mobile Device Center (WMDC)   ⇒ for Windows Vista
  - Device Stage   ⇒ for Windows 7

These programs are available on **www.Microsoft.com/getstarted**. With these programs you can handle the following tasks:

- Add and remove programs on your skeye.dart
- Synchronise files (e-mail, contacts, calendar, songs, pictures and internet favourites)
- Transfer and copy files

6.5   Application of USB Host

Example:

Put an USB stick into the connector of the USB Host of the desktop cradle. The skeye.dart has now access to the data of the USB stick.

Fig. 19: Desktop cradle | USB stick

> **NOTE!**
>
> **Please do connect only USB devices to the USB host of the desktop cradle that consume not more than max. 100 mA to 5 V**.

7. Technical Data

Casing:	Rugged case, protection level IP54, drop spec 1,2 m
Processor:	CPU Marvell PXA 320, 624 MHz
Memory:	128 MB DDRAM, 256 MB Flash
Display:	3,5 " VGA colour TFT with touchscreen
Keyboard:	• 9 keys • 2-side scan buttons • Individually backlit keys for intuitive operation
LED:	2-colour LED indication: • red: battery is charging • green: battery is fully charged
Further equipment:	• Camera 2 MP, autofokus, with barcode decodierung function, camera flash light • Microphone, Receiver, Speaker
Communication:	• Wireless LAN IEEE 802.11 b/g • Bluetooth 2.0 • GSM/GPRS/EDGE • GPS
Battery:	Rechargeable battery pack 2100 mAh (lockable)
Interfaces:	• USB 1.1 host port (Full Speed) • USB 1.1 device port (Full Speed) • RS232 port (TxD, RxD, RTS, CTS) • Micro-SD card slot (lockable) • DC-in connector • Headset connector
Temperature Range:	Operating temperature: –10 °C bis + 50 °C
Size:	145 mm x 79 mm x 25 mm
Weight:	270 g (including battery)
Rules and Standards:	• CE Marking • German ElektroG and RoHS conformity

8. Toubleshooting

8.1 Soft Reset

If the skeye.dart does no longer react or a restart is required for any reason, proceed as follows:

▪ **Simultaneously** press the Reset and the Power-On button.

Power-on button
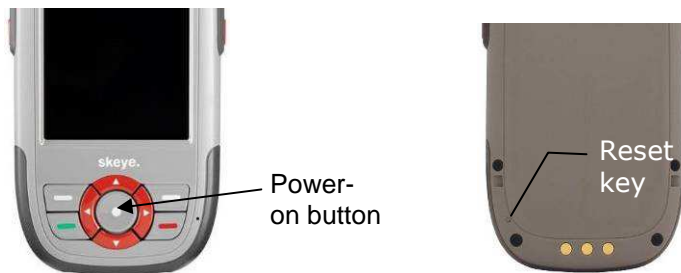
Reset key

▪ Use the stylus to initiate the soft reset.
▪ **Press the reset key carefully with low expenditure of force.**

8.2 Factory Reset

The following steps should only be performed if you wish to relocate the skeye.dart to the **factory default settings.**

Attention: all data on the mobile terminal are deleted afterwards!

1. **Simultaneously** press the Reset and the Power-On button.

Power-on button

Reset key

Use the stylus to initiate the reset.
Press the reset key carefully with low expenditure of force.

2. As soon as the Windows Mobile logo displays on a green background, press and hold the white button on the right (*Function key 2).*

3. You are asked whether you want to run a "Cold Boot".
   Click [OK] to confirm.

> **i**   **After a factory reset, all data are deleted from your mobile terminal.**

Manufacturer's Address

Höft & Wessel AG
Skeye
Rotenburger Str. 20
30659 Hannover, Germany

Phone. +49 511 6102-0
Tel. +49 511 6102-411
Mail. info@skeye.com
Web. www.skeye.de

Service line.
within Germany: +49 1803 232829 (0.09 € per min)
from abroad: +49/511/6102-600